

09/445289

15jun06 14:05:55 User219783 Session D2191.2

SYSTEM:OS - DIALOG OneSearch

File 65:Inside Conferences 1993-2006/Jun 15

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File 266:FEDRIP 2005/Dec

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File 440:Current Contents Search(R) 1990-2006/Jun 15

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File 348:EUROPEAN PATENTS 1978-2006/ 200623

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*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

File 357:Derwent Biotech Res. _1982-2006/Jun W1

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File 113:European R&D Database 1997

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*File 113: This file is closed (no updates)

Set Items Description

Set	Items	Description
S1	45	AU=(MUKAMOLOVA, G? OR MUKAMOLOVA G?)
S2	0	AU=(KEPRELYANTS, A? OR KEPRELYANTS A?)
S3	6947	AU=(YOUNG, D? OR YOUNG D?)
S4	475	AU=(KELL, D? OR KELL D?)
S5	5829	AU=(YOUNG M? OR YOUNG, M?)
S6	6	S1 AND S3 AND S4 AND S5
S7	35	S1 AND (S3 OR S4 OR S5)
S8	53	S3 AND (S4 OR S5)
S9	21	S4 AND S5
S10	68	(S7 OR S8 OR S9 OR S1 OR S3 OR S4 OR S5) AND (PHEROMON? OR ALLELOCHEMICAL? ? OR SEMIOCHEMICAL? ? OR (ALLELO OR SEMIO) (W-)CHEMICAL? ? OR ALLOMON?? OR ECTOHORMON? OR ECTO(W)HORMON?? OR KAIROMON?? OR SYNOMON??)
S11	30	S10 AND (BACTERI?? OR MICROORGANISM? ? OR MICRO(W)ORGANISM? ? OR MICROB??)
S12	30	S10 AND (BACTERI?? OR MICROORGANISM? ? OR MICRO(W)ORGANISM? ? OR MICROB???)
S13	33	S6 OR S12
S14	33	RD (unique items)

>>>No matching display code(s) found in file(s): 65, 113

- Author(s)

14/3,AB/1 (Item 1 from file: 440)

DIALOG(R)File 440:Current Contents Search(R)

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23045373 Document Delivery Available: 0002363626

PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 2006

ISSN: 0027-8424

14/3,AB/2 (Item 2 from file: 440)

DIALOG(R)File 440:Current Contents Search(R)

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22556165 Document Delivery Available: 0002347604

PUBLICATION: JOURNAL OF BIOLOGICAL CHEMISTRY, 2006

ISSN: 0021-9258

14/3,AB/3 (Item 3 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

19733539 Document Delivery Available: 0002251949
 PUBLICATION: JOURNAL OF UROLOGY, 2004
 ISSN: 0022-5347

14/3,AB/4 (Item 4 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

19125011 Document Delivery Available: 0002233799
 PUBLICATION: JOURNAL OF UROLOGY, 2004
 ISSN: 0022-5347

14/3,AB/5 (Item 5 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

18419454 Document Delivery Available: 0002211645
 PUBLICATION: JOURNAL OF BIOLOGICAL CHEMISTRY, 2004
 ISSN: 0021-9258

14/3,AB/6 (Item 6 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

17913236 Document Delivery Available: 0001892669
 PUBLICATION: LANCET, 2004
 ISSN: 0140-6736

14/3,AB/7 (Item 7 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

16808429 Document Delivery Available: 0001849260
 PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
 UNITED STATES OF AMERICA, 2003
 ISSN: 0027-8424

14/3,AB/8 (Item 8 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

15080548 Document Delivery Available: 0001789684
 PUBLICATION: MOLECULAR MICROBIOLOGY, 2002
 ISSN: 0950-382X

14/3,AB/9 (Item 9 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

15080523 Document Delivery Available: 000178968400003 References: 59
 TITLE: A family of autocrine growth factors in Mycobacterium tuberculosis
 AUTHOR(S): Mukamolova GV; Turapov OA; Young DI; Kaprelyants AS;
 Kell DB; Young M (REPRINT)
 AUTHOR(S) E-MAIL: miy@aber.ac.uk
 CORPORATE SOURCE: Univ Wales, Inst Biol Sci, /Aberystwyth SY23
 3DD/Dyfed/Wales/ (REPRINT); Univ Wales, Inst Biol Sci, /Aberystwyth SY23
 3DD/Dyfed/Wales/; Russian Acad Sci, AN Bakh Biochem Inst, /Moscow
 117071//Russia/
 PUBLICATION TYPE: JOURNAL
 PUBLICATION: MOLECULAR MICROBIOLOGY, 2002, V46, N3 (NOV), P623-635
 GENUINE ARTICLE#: 610PD
 PUBLISHER: BLACKWELL PUBLISHING LTD, P O BOX 88, OSNEY MEAD, OXFORD OX2
 ONE, OXON, ENGLAND
 ISSN: 0950-382X
 LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: Mycobacterium tuberculosis and its close relative, Mycobacterium bovis (BCG) contain five genes whose predicted products resemble Rpf from Micrococcus luteus. Rpf is a secreted growth factor, active at picomolar concentrations, which is required for the growth of vegetative cells in minimal media at very low inoculum densities, as well as the resuscitation of dormant cells. We show here that the five cognate proteins from M. tuberculosis have very similar characteristics and properties to those of Rpf. They too stimulate bacterial growth at picomolar (and in some cases, subpicomolar) concentrations. Several lines of evidence indicate that they exert their activity from an extra-cytoplasmic location, suggesting that they are also involved in intercellular signalling. The five M. tuberculosis proteins show cross-species activity against M. luteus, Mycobacterium smegmatis and M. bovis (BCG). Actively growing cells of M. bovis (BCG) do not respond to these proteins, whereas bacteria exposed to a prolonged stationary phase do. Affinity-purified antibodies inhibit bacterial growth in vitro, suggesting that sequestration of these proteins at the cell surface might provide a means to limit or even prevent bacterial multiplication in vivo. The Rpf family of bacterial growth factors may therefore provide novel opportunities for preventing and controlling mycobacterial infections.

14/3,AB/10 (Item 10 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

14953954 Document Delivery Available: 0001789167
 PUBLICATION: JOURNAL OF BACTERIOLOGY, 2002
 ISSN: 0021-9193

14/3,AB/11 (Item 11 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

13380945
 PUBLICATION: APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 2002
 ISSN: 0099-2240

14/3,AB/12 (Item 12 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)

(c) 2006 Inst for Sci Info. All rts. reserv.

12441800

PUBLICATION: INFECTION AND IMMUNITY, 2001
ISSN: 0019-9567

14/3,AB/13 (Item 13 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

12196178

PUBLICATION: NATURE, 2000
ISSN: 0028-0836

14/3,AB/14 (Item 14 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

11935081

PUBLICATION: ALLELOPATHY JOURNAL, 2000
ISSN: 0971-4693

14/3,AB/15 (Item 15 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

10710698 References: 32

TITLE: Stimulation of the multiplication of *Micrococcus luteus* by an autocrine growth factor

AUTHOR(S): Mukamolova GV; Kormer SS; Kell DB; Kaprelyants AS (REPRINT)

AUTHOR(S) E-MAIL: ask2@glas.apc.org

CORPORATE SOURCE: Russian Acad Sci, Bakh Inst Biochem, Leninsky Pr 33/Moscow 117071//Russia/ (REPRINT); Russian Acad Sci, Bakh Inst Biochem, /Moscow 117071//Russia/; Univ Coll Wales, Inst Biol Sci, /Aberystwyth SY23 3DD/Dyfed/Wales/

PUBLICATION TYPE: JOURNAL

PUBLICATION: ARCHIVES OF MICROBIOLOGY, 1999, V172, N1 (JUL), P9-14

GENUINE ARTICLE#: 213VF

PUBLISHER: SPRINGER VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010 USA

ISSN: 0302-8933

LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: Viable cells of *Micrococcus luteus* secrete a proteineous growth factor (Rpf) which promotes the resuscitation of dormant, nongrowing cells to yield normal, colony-forming bacteria. When washed *M. luteus* cells were used as an inoculum, there was a pronounced influence of Rpf on the true lag phase and cell growth on lactate minimal medium. In the absence of Rpf, there was no increase in colony-forming units for up to 10 days. When the inoculum contained less than 10(5) cells ml(-1), macroscopically observable *M. luteus* growth was not obtained in succinate minimal medium unless Rpf was added. Incubation of *M. luteus* in the stationary phase for 100 h resulted in a failure of the cells to grow in lactate minimal medium from inocula of small size although the viability of these cells was close to 100% as estimated using agar plates made from lactate minimal medium or rich medium. The underestimation of viable cells by the most-probable-number (MPN) method in comparison with colony-forming units

was equivalent to the requirement that at least 10(5) cells grown on succinate medium, 10(3) cells from old stationary phase, or approximately 10-500 washed cells are required per millilitre of inoculum for growth to lead to visible turbidity. The addition of Rpf in the MPN dilutions led to an increase of the viable cell numbers estimated to approximately the same levels as those determined by colony-forming units. Thus, a basic principle of microbiology - "one cell-one culture" - may not be applicable in some circumstances in which the metabolic activity of "starter" cells is not sufficient to produce enough autocrine growth factor to support cell multiplication.

14/3,AB/16 (Item 16 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

09741827
 PUBLICATION: ECOLOGICAL ENTOMOLOGY, 1998
 ISSN: 0307-6946

14/3,AB/17 (Item 17 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

09694098
 PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 1998
 ISSN: 0027-8424

14/3,AB/18 (Item 18 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

09694070 References: 53
 TITLE: A **bacterial** cytokine
 AUTHOR(S): **Mukamolova GV**; Kaprelyants AS; **Young DI**; **Young M**; **Kell DB (REPRINT)**
 CORPORATE SOURCE: UNIV WALES, INST BIOL SCI, CLEDWYN BLDG/ABERYSTWYTH SY23 3DD/DYFED/WALES/ (REPRINT); UNIV WALES, INST BIOL SCI/ABERYSTWYTH SY23 3DD/DYFED/WALES/; RUSSIAN ACAD SCI, AN BAKH BIOCHEM INST/MOSCOW 117071//RUSSIA/
 PUBLICATION TYPE: JOURNAL
 PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 1998, V95, N15 (JUL 21), P8916-8921
 GENUINE ARTICLE#: 103EA
 PUBLISHER: NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW, WASHINGTON, DC 20418
 ISSN: 0027-8424
 LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: Viable cells of *Micrococcus luteus* secrete a factor, which promotes the resuscitation and growth of dormant, nongrowing cells of the same organism. The resuscitation-promoting factor (Rpf) is a protein, which has been purified to homogeneity. In picomolar concentrations, it increases the viable cell count of dormant *M. luteus* cultures at least 100-fold and can also stimulate the growth of viable cells. Rpf also stimulates the growth of several other high G+C Gram-positive organisms, including *Mycobacterium avium*, *Mycobacterium bovis* (BCG), *Mycobacterium kansasii*,

Il Mycobacterium smegmatis, and Mycobacterium tuberculosis, Similar genes are widely distributed among high G+C Gram-positive **bacteria**; genome sequencing has uncovered examples in Mycobacterium leprae and dib. tuberculosis and others have been detected by hybridization in Mb. smegmatis, Corynebacterium glutamicum, and Streptomyces spp, The mycobacterial gene products may provide different targets for the detection and control of these important pathogens. This report is thus a description of a proteinaceous autocrine or paracrine **bacterial** growth factor or cytokine.

14/3,AB/19 (Item 19 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

08867518
 PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
 UNITED STATES OF AMERICA, 1997
 ISSN: 0027-8424

14/3,AB/20 (Item 20 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

07201611
 PUBLICATION: TETRAHEDRON LETTERS, 1996
 ISSN: 0040-4039

14/3,AB/21 (Item 21 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

06187073
 PUBLICATION: TRENDS IN ECOLOGY & EVOLUTION, 1995
 ISSN: 0169-5347

14/3,AB/22 (Item 22 from file: 440)
 DIALOG(R)File 440:Current Contents Search(R)
 (c) 2006 Inst for Sci Info. All rts. reserv.

06187071 References: 79
 TITLE: **PHEROMONES**, SOCIAL BEHAVIOUR AND THE FUNCTIONS OF SECONDARY
 METABOLISM IN **BACTERIA**
 AUTHOR(S): **KELL DB**; KAPRELYANTS AS; GRAFEN A
 CORPORATE SOURCE: UNIV WALES, INST BIOL SCI/ABERYSTWYTH SY23
 3DA/DYFED/WALES/ (Reprint); RUSSIAN ACAD SCI, BAKH INST BIOCHEM/MOSCOW
 117071//RUSSIA/; UNIV OXFORD, DEPT PLANT SCI/OXFORD OX1 3RA//ENGLAND/
 PUBLICATION: TRENDS IN ECOLOGY & EVOLUTION, 1995, V10, N3 (MAR), P126-129
 GENUINE ARTICLE#: QJ053
 ISSN: 0169-5347
 LANGUAGE: ENGLISH DOCUMENT TYPE: ARTICLE

ABSTRACT: The functions of secondary metabolites in **bacteria** are generally not known, although it is to be assumed that their production in nature must be of some benefit to the producer organism. Most **microbial** secondary metabolites may perhaps best be viewed as **pheromones**. Their production may thus represent a form of

microbial social behaviour. Because cells that are close to each other spatially are normally closely related genetically, a simple application of Hamilton's rule may be used to account for the benefits that such secondary metabolite production afford the producer.

14/3,AB/23 (Item 23 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

06122367
PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
UNITED STATES OF AMERICA, 1995
ISSN: 0027-8424

14/3,AB/24 (Item 24 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

04983690
PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
UNITED STATES OF AMERICA, 1993
ISSN: 0027-8424

14/3,AB/25 (Item 25 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

04945272
PUBLICATION: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
UNITED STATES OF AMERICA, 1993
ISSN: 0027-8424

14/3,AB/26 (Item 26 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

03801130
PUBLICATION: PLASMID, 1992

14/3,AB/27 (Item 27 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

03189222
PUBLICATION: CELL, 1991

14/3,AB/28 (Item 28 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

02397396
PUBLICATION: JOURNAL OF BIOLOGICAL CHEMISTRY, 1990

09/445289

14/3,AB/29 (Item 29 from file: 440)
DIALOG(R) File 440:Current Contents Search(R)
(c) 2006 Inst for Sci Info. All rts. reserv.

01716168
PUBLICATION: PLASMID, 1989

14/3,AB/30 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

01709911
Method of collecting materials exuded from plant roots
Verfahren zum Sammeln von Ausschwitzungsmitteln der Pflanzenwurzeln
Methode de collecte de substances exsudees par les racines des plantes
PATENT ASSIGNEE:
E.I. DU PONT DE NEMOURS AND COMPANY, (200580), 1007 Market Street,
Wilmington Delaware 19898, (US), (Applicant designated States: all)
Design Technology and Irrigation Limited, (3205100), Suffolk House,
George Street, Croydon, Surrey CR0 0YN, (GB), (Applicant designated
States: all)
INVENTOR:
Tonkin, Mark Christopher, The Barn, Ripe Lane, Ripe Village, Lewes,
Sussex BN8 6AP, (GB)
Young, Mark Andrew, 33 Kidderminster Road Bewdley, Worcs. DY12 1BU,
(GB)
Kirchner, Olaf Norbert, 5, chemin de Tres Chez Roget, 1272 Genolier, (CH)
Cahill, Charles William, 111 Walls Way Bear, Delaware 19701, (US)
LEGAL REPRESENTATIVE:
Pett, Christopher Phineas et al (41341), Frank B. Dehn & Co., European
Patent Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)
PATENT (CC, No, Kind, Date): EP 1400166 A1 040324 (Basic)
APPLICATION (CC, No, Date): EP 2003017616 000803;
PRIORITY (CC, No, Date): US 369798 990806
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE
RELATED PARENT NUMBER(S) - PN (AN):
EP 1199923 (EP 2000952431)
INTERNATIONAL PATENT CLASS (V7): A01G-031/00

ABSTRACT EP 1400166 A1
A method of collecting materials exuded from plant roots is provided by
growing the plant roots in a growing medium that is surrounded by a
membrane such that moisture is released into the growing medium from the
membrane whilst materials exuded from the plant roots are retained within
the growing medium by the membrane, wherein the membrane is a hydrophobic
porous membrane or a hydrophilic non-porous membrane.

ABSTRACT WORD COUNT: 68

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200413	270
SPEC A	(English)	200413	5107
Total word count - document A			5377
Total word count - document B			0
Total word count - documents A + B			5377

Searcher : Shears 571-272-2528

14/3,AB/31 (Item 2 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2006 European Patent Office. All rts. reserv.

01265937

METHOD FOR MODIFYING ROOT GROWTH
 VERFAHREN ZUR ABANDERUNG DES WURZELNWACHSTUMS
 PROCEDE POUR MODIFIER LA CROISSANCE DES RACINES
 PATENT ASSIGNEE:

E.I. DU PONT DE NEMOURS AND COMPANY, (200580), 1007 Market Street,
 Wilmington, Delaware 19898, (US), (Proprietor designated states: all)
 Design Technology and Irrigation Limited, (3205100), Suffolk House,
 George Street, Croydon, Surrey CR0 0YN, (GB), (Proprietor designated
 states: all)

INVENTOR:

TONKIN, Mark Christopher, The Barn, Ripe Lane, Ripe Village, Lewes,
 Sussex BN8 6AP, (GB)

YOUNG, Mark Andrew, 32 Sunnyhill Road, Hemel Hempstead,
 Hertfordshire HP1 1SZ, (GB)

KIRCHNER, Olaf, Norbert, 62 Route de la Gare, Satigny, CH 1242, (CH)

CAHILL, Charles, William, 4 Buchanan Circle, Newark, DE 19702, (US)

LEGAL REPRESENTATIVE:

Morf, Jan Stefan, Dr. Dipl.-Chem. et al (73251), Patentanwälte Abitz und
 Partner Postfach 86 01 09, 81628 München, (DE)

PATENT (CC, No, Kind, Date): EP 1199923 A1 020502 (Basic)

EP 1199923 B1 050316

WO 2001010193 010215

APPLICATION (CC, No, Date): EP 2000952431 000803; WO 2000US21145 000803

PRIORITY (CC, No, Date): US 369798 990806

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
 LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

RELATED DIVISIONAL NUMBER(S) - PN (AN):

EP 1400166 (EP 2003017616)

INTERNATIONAL PATENT CLASS (V7): A01G-031/02

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200511	436
CLAIMS B	(German)	200511	468
CLAIMS B	(French)	200511	519
SPEC B	(English)	200511	4792
Total word count - document A			0
Total word count - document B			6215
Total word count - documents A + B			6215

14/3,AB/32 (Item 3 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2006 European Patent Office. All rts. reserv.

01013649

BACTERIAL PHEROMONES AND USES THEREFOR
 BAKTERIELLE PHEROMONE UND DEREN VERWENDUNGEN
 PHEROMONES BACTERIENNES ET LEURS UTILISATIONS
 PATENT ASSIGNEE:

09/445289

The University of Wales, (2507151), Aberystwyth, Old College, King Street
, Aberystwyth SY23 2AX, (GB), (Applicant designated States: all)

INVENTOR:

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YOUNG, Michael, Belle Vue Llanilar, Ceredigion SY23 4PG, (GB)

LEGAL REPRESENTATIVE:

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53 High Street, Horley Surrey RH6 7BN, (GB)

PATENT (CC, No, Kind, Date): EP 983361 A1 000308 (Basic)

WO 9855624 981210

APPLICATION (CC, No, Date): EP 98925821 980603; WO 98GB1619 980603

PRIORITY (CC, No, Date): GB 9711389 970604; GB 9811221 980527

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): C12N-015/31; C07K-014/195; C07K-014/315;
C07K-014/31; C07K-014/32; C07K-014/33; C07K-014/335; C07K-014/305;
C07K-014/35; C07K-014/36; C07K-014/34; C12N-001/38; A61K-039/02;
A61K-039/05; A61K-039/07; A61K-039/08; A61K-039/085; C07K-016/12;
G01N-033/50; C12Q-001/68; C12N-015/11

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

14/3,AB/33 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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0232439 DBR Accession No.: 99-02540 PATENT

New **bacterial** resuscitation factors - recombinant **bacterium**
resuscitation factor used to promote **bacterium** growth, and
resuscitate latent, moribund and dormant **microorganism**

AUTHOR: **Mukamolova G V**; **Kaprelyants A S**; **Young D I**; **Kell**
D B; **Young M**

CORPORATE SOURCE: Aberystwyth, UK.

PATENT ASSIGNEE: Univ.Wales 1998

PATENT NUMBER: WO 9855624 PATENT DATE: 981210 WPI ACCESSION NO.:
99-070270 (9906)

PRIORITY APPLIC. NO.: GB 9811221 APPLIC. DATE: 980527

NATIONAL APPLIC. NO.: WO 98GB1619 APPLIC. DATE: 980603

LANGUAGE: English

ABSTRACT: An isolated or recombinant RP-factor, or a homolog, derivative,
allelic or species variant, mutein, or equivalent is claimed.
Rp-factors have the ability to resuscitate dormant, moribund or latent
cells, and may also have a growth-stimulating activity. Also claimed
are: antibodies against RP-factors; RP-factor receptors or convertase;
antibodies against convertase: RP-factor-antagonists and -inhibitors;
RP-factor-agonists, activators or mimetics; a nucleic acid (A) that
encodes an RP-factor, or an RP-factor receptor, or their homologs; a
vector containing the nucleic acid; a host cell transformed by that
vector; a culture or transportation medium containing an RP-factor; DNA
probes complementary to (A); a DNA molecule antisense to (A);
antibiotics produced by screening against an RP-factor receptor;

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biological molecules and **microorganisms** produced by incubating a sample in the presence of an RP-factor; and a live vaccine containing a **microbe** that is modified to include a mutation in a gene that encodes or regulates an RP-factor. These can be used to stimulate **bacterial** growth and to resuscitate **microorganisms**. (75pp)

Set	Items	Description
S15	88	AU=(KAPRELYANTS, A? OR KAPRELYANTS A?)
S16	63	S15 AND (S1 OR S3 OR S4 OR S5)
S17	7	(S16 OR S15) AND (PHEROMON? OR ALLELOCHEMICAL? ? OR SEMIOC- HEMICAL? ? OR (ALLELO OR SEMIO)(W)CHEMICAL? ? OR ALLOMON?? OR ECTOHORMON? OR ECTO(W)HORMON?? OR KAIROMON?? OR SYNOMON??)
S18	7	S17 AND (BACTERI?? OR MICROORGANISM? ? OR MICRO(W)ORGANISM? ? OR MICROB???)
S19	1	S18 NOT S13

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ABSTRACT: In developing **bacterial** populations many essential processes, such as division, genetic transformation, sporulation, and synthesis of antibiotics and secondary metabolites, are regulated by intercellular communication mediated by secretion of signaling molecules, such as homoserine lactones and peptides. Another intercellular communication type, namely a physical contact between cells (cell aggregation), plays a key role in formation of biofilms or cellular consortia and in cell proliferation under unfavorable conditions. The mechanisms involved in these two types of **bacterial** communication are discussed in this review.

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S1	45	AU=(MUKAMOLOVA, G? OR MUKAMOLOVA G?)
S2	0	AU=(KEPRELYANTS, A? OR KEPRELYANTS A?)
S3	6947	AU=(YOUNG, D? OR YOUNG D?)
S4	475	AU=(KELL, D? OR KELL D?)
S5	5829	AU=(YOUNG M? OR YOUNG, M?)
S6	6	S1 AND S3 AND S4 AND S5
S7	35	S1 AND (S3 OR S4 OR S5)
S8	53	S3 AND (S4 OR S5)
S9	21	S4 AND S5
S10	68	(S7 OR S8 OR S9 OR S1 OR S3 OR S4 OR S5) AND (PHEROMON? OR ALLELOCHEMICAL? ? OR SEMIOCHEMICAL? ? OR (ALLELO OR SEMIO) (W-)CHEMICAL? ? OR ALLOMON?? OR ECTOHORMON? OR ECTO(W)HORMON?? OR KAIROMON?? OR SYNONON??)
S11	30	S10 AND (BACTERI?? OR MICROORGANISM? ? OR MICRO(W)ORGANISM? ? OR MICROB??)
S12	30	S10 AND (BACTERI?? OR MICROORGANISM? ? OR MICRO(W)ORGANISM? ? OR MICROB???)
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S14	33	RD (unique items)
S15	88	AU=(KAPRELYANTS, A? OR KAPRELYANTS A?)
S16	63	S15 AND (S1 OR S3 OR S4 OR S5)
S17	7	(S16 OR S15) AND (PHEROMON? OR ALLELOCHEMICAL? ? OR SEMIOCHEMICAL? ? OR (ALLELO OR SEMIO) (W)CHEMICAL? ? OR ALLOMON?? OR ECTOHORMON? OR ECTO(W)HORMON?? OR KAIROMON?? OR SYNONON??)
S18	7	S17 AND (BACTERI?? OR MICROORGANISM? ? OR MICRO(W)ORGANISM? ? OR MICROB???)
S19	1	S18 NOT S13